

Name: \_\_\_\_\_

**at1113exam: Expand, factor, and solve quadratics (v339)**

1. Expand the following expression into standard form.

$$(9x + 2)^2$$

2. Expand the following expression into standard form.

$$(2x - 7)(3x - 5)$$

3. Solve the equation.

$$(5x + 9)(7x - 2) = 0$$

4. Expand the following expression into standard form.

$$(2x + 3)(2x - 3)$$

5. Solve the equation with factoring by grouping.

$$15x^2 + 18x + 20x + 24 = 0$$

6. Solve the equation.

$$5x^2 + 18x + 26 = 2x^2 - 5x - 4$$

7. Factor the expression.

$$x^2 - 14x + 48$$

8. Factor the expression.

$$49x^2 - 81$$